

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-21. (canceled)

22. (previously presented) A system for an essentially plane-parallel alignment of a first plane with reference to a second plane, wherein the system comprises:

(a) a device comprising a main part and a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first plane, and said light source is connected to the main part of the device in a position to emit a scattered light beam said scattered light beam having a first scattering angle in one direction, and smaller scattering angles in other directions, whereby the scattered light beam is in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when it is attached to the device via the contact points; and

(b) an indicator device to be arranged on the second plane.

23. (canceled)

24. (previously presented) The system of claim 22, comprising at least three indicator devices.

25. (previously presented) A method for alignment of a first plane with reference to a second plane so that said planes become essentially plane-parallel, wherein the method comprises the steps of:

(a) attaching to the first plane an alignment device comprising a main part, a light source and a plurality contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first plane, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when plane attached to the device via the contact points;

(b) generating a light beam from the light source;

(c) arranging indicator devices provided with measurement marks on the second plane within an area illuminated by the light beam; and

(d) adjusting the second plane with regard to said measurement marks so that each mark coincides with an intersectional line between the light beam and the indicator device.

26. (previously presented) The method according to claim 25, wherein the first and second planes are selected independently selected from the group consisting of pulleys, wheels and

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

walls.

27. (previously presented) The method of claim 26, wherein the indicator device comprises a part for attachment and a body provided with at least one indicator.

28. (previously presented) The method according to claim 25, wherein both the first and second plane are a pulley.

29. (previously presented) The method of claim 25, wherein the indicator device comprises a part for attachment and a body provided with at least one indicator.

30. (previously presented) The method of claim 25, wherein at least three indicator devices are arranged on the second plane.

31. (previously presented) The method of claim 25, wherein the indicator device is part of said second plane.

32. (previously presented) The method according to claim 31, wherein the first and second planes are independently selected from the group consisting of pulleys, wheels and walls.

33. (previously presented) The method according to claim 31, wherein both the first and second plane are a pulley.

34. (previously presented) The method of claim 25, wherein said alignment device comprises an arm, rotatably attached to said main part, said arm having at least one contact point for attachment of the first plane disposed thereon.

35. The method of claim 25, wherein said contact points are moveable between different positions in a plane defined by the physical dimensions of the device, the contact points, independent of position, allowing the device to transfer a position and direction from the attached first plane in two directions that are essentially mutually perpendicular.

36. An alignable pulley system comprising:

- (a) first and second pulleys;
- (b) an alignment device comprising a main part, a light source and a plurality contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first pulley, and said light source is connected to the main part of the device in a position to emit a scattered light beam said scattered light beam having a first scattering angle in one direction, and smaller scattering angles in others directions, whereby the scattered

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

light beam is in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first pulley when the first pulley is attached to the device via the contact points; and
(c) an indicator device.

37-38 (canceled)

39. (previously presented) The system of claim 22, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

40. (currently amended) The system of claim ~~23~~ 82, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

41. (currently amended) The system of claim ~~23~~ 82, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

42. The system of claim 41, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

43. (previously presented) An alignable pulley system comprising:
(a) first and second pulleys;
(b) an alignment device comprising a main part, a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first pulley, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first pulley when the first pulley is attached to the device via the contact points; and
(c) a plurality of indicator devices provided with measurement marks,

wherein the alignment device further comprises an arm, rotatably attached to said main part, said arm having at least one contact point for attachment of the first pulley disposed thereon.

44. (previously presented) The system of claim 24, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

Appln No.: 09/437,908

Amendment Dated: June 23, 2005

Reply to Office Action of March 24, 2005

45. (previously presented) The system of claim 44, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

46. (previously presented) The system of claim 24, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

47. (previously presented) The method of claim 25, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

48. (previously presented) The method of claim 27, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

49. (previously presented) The method of claim 27, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

50. (previously presented) The method of claim 49, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

51. (previously presented) The method of claim 34, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

52. (previously presented) The method of claim 51, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

53. (previously presented) The pulley system of claim 36, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

54. (previously presented) The pulley system of claim 53, wherein the indicator devices each comprise a part for attachment and a body provided with at least one indicator.

55. (previously presented) The pulley system of claim 54, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

56. (currently amended) The pulley system of claim ~~37~~ 83, wherein the indicator devices each comprise a part for attachment and a body provided with at least one indicator.

57. (previously presented) The pulley system of claim 56, wherein the parts for attachment of the indicator devices are attached to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane.

58. (previously presented) The pulley system of claim 57, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

59. (previously presented) The pulley system of claim 56, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

60. (canceled)

61. (currently amended) The pulley system of claim 36 ~~38~~, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

62. (previously presented) The pulley system of claim 61, wherein the indicator devices each comprise a part for attachment and a body provided with at least one indicator.

63. (previously presented) The pulley system of claim 62, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

64. (currently amended) The pulley system of claim 36 ~~38~~, wherein the indicator devices each comprise a part for attachment and a body provided with at least one indicator.

Appln No.: 09/437,908

Amendment Dated: June 23, 2005

Reply to Office Action of March 24, 2005

65. (previously presented) The pulley system of claim 64, wherein the parts for attachment of the indicator devices are attached to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane.

66-67. (previously presented) (canceled)

68. (previously presented) The system of claim 22, wherein the contact points are magnets.

69. (previously presented) The system of claim 68, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

70. (previously presented) The method of claim 25, wherein the contact points are magnets.

71. (previously presented) The method of claim 70, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

72. (previously presented) The pulley system of claim 36, wherein the contact points are magnets.

73. (previously presented) The pulley system of claim 72, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

74. (previously presented) The system of claim 22, wherein the indicator device comprises a sensor which is able to sense the scattered light beam.

75. (previously presented) The system of claim 22, wherein the indicator device comprises a measurement mark.

76. (previously presented) The pulley system of claim 36, wherein the indicator device comprises a sensor which is able to sense the scattered light beam.

77. (previously presented) The pulley system of claim 36, wherein the indicator device comprises a measurement mark.

78. (previously presented) A device for alignment of a first plane with reference to a second plane, said device comprising a main part, a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

said first plane, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when it is attached to the device via the contact points, wherein said contact points are displaceable relative to each other and/or to the main body.

79. (previously presented) A device for alignment of a first plane with reference to a second plane, said device comprising a main part, a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to said first plane, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when it is attached to the device via the contact points, further comprising an arm, rotatably connected to said main part.

80. (previously presented) The device of claim 79, wherein said arm is provided with at least one contact point.

81. (previously presented) A device for alignment of a first plane with reference to a second plane, said device comprising a main part, a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to said first plane, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when it is attached to the device via the contact points, wherein said contact points are moveable between different positions in a plane defined by the physical dimensions of the device, the contact points, independent of position, allowing the device to transfer a position and direction from the first plane in two directions that are essentially mutually perpendicular.

82. (previously presented) A system for alignment of a first plane with reference to a second plane, wherein the system comprises:

(a) a device comprising a main part and a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first plane, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when it is attached to the device via the contact points; and

(b) indicator devices to be arranged on the second plane, wherein the indicator devices each comprise a part for attachment and a body provided with a measurement mark.

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

83. (previously presented) An alignable pulley system comprising:
- (a) first and second pulleys;
 - (b) an alignment device comprising a main part, a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first pulley, and said light source is connected to the main part of the device in a position to emit a light beam with a scattering angle in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first pulley when the first pulley is attached to the device via the contact points; and
 - (c) a plurality of indicator devices provided with measurement marks,

wherein the indicator devices are affixed to the second pulley.

84. (previously presented) A method for alignment of a first plane with reference to a second plane so that said planes become essentially plane-parallel, wherein the method comprises the steps of:

- (a) attaching to the first plane an alignment device comprising a main part, a light source and a plurality of contact points, wherein said contact points are connected to the main part and disposed to attach the main part to the first plane, and said light source is connected to the main part of the device in a position to emit a scattered light beam said scattered light beam having a first scattering angle in one direction, and smaller scattering angles in others directions, whereby the scattered light beam is in a scattering plane, wherein the scattering plane is essentially parallel to the plane of the first plane when it is attached to the device via the contact points;
- (b) generating a scattered light beam from the light source;
- (c) arranging indicator devices provided with measurement marks on the second plane within an area illuminated by the light beam; and
- (d) adjusting the second plane with regard to said measurement marks so that each mark coincides with an intersectional line between the light beam and the indicator device.

85. (previously presented) The method according to claim 84, wherein the first and second planes are selected independently selected from the group consisting of pulleys, wheels and walls.

86. (previously presented) The method of claim 85, wherein the indicator device comprises a part for attachment and a body provided with at least one indicator.

87. (previously presented) The method according to claim 84, wherein both the first and second plane are a pulley.

88. (previously presented) The method of claim 84, wherein the indicator device comprises a

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

part for attachment and a body provided with at least one indicator.

89. (previously presented) The method of claim 84, wherein at least three indicator devices are arranged on the second plane.

90. (previously presented) The method of claim 84, wherein the indicator device is part of said second plane.

91. (previously presented) The method according to claim 90, wherein the first and second planes are selected independently selected from the group consisting of pulleys, wheels and walls.

92. (previously presented) The method according to claim 90, wherein both the first and second plane are a pulley.

93. (previously presented) The method of claim 84, wherein said alignment device comprises an arm, rotatably attached to said main part, said arm having at least one contact point for attachment of the first plane disposed thereon.

94. (previously presented) The method of claim 84, wherein said contact points are moveable between different positions in a plane defined by the physical dimensions of the device, the contact points, independent of position, allowing the device to transfer a position and direction from the attached first plane in two directions that are essentially mutually perpendicular.

95. (previously presented) The method of claim 84, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

96. (previously presented) The method of claim 86, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

97. (previously presented) The method of claim 86, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

98. (previously presented) The method of claim 97, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to

Appln No.: 09/437,908
Amendment Dated: June 23, 2005
Reply to Office Action of March 24, 2005

the second plane.

99. (previously presented) The method of claim 93, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

100. (previously presented) The method of claim 99, wherein the part for attachment of the indicator device is attachable to the second plane such that the indicator marks are disposed in a plane parallel to but separated from the second plane when the indicator devices are attached to the second plane.

101. (previously presented) The method of claim 84, wherein the contact points are magnets.

102. (previously presented) The method of claim 101, wherein the contact points are disposed on a face of the main body that is essentially parallel to the scattering plane such that said face is essentially parallel to the first plane when the device is attached to the first plane.

103. (canceled)

104. (previously presented) The device of claim 22, wherein the light is a laser.

105. (previously presented) The device of claim 25, wherein the light is a laser.

106. (previously presented) The device of claim 36, wherein the light is a laser.

107. (previously presented) The device of claim 84, wherein the light is a laser.